UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/761,114	01/16/2001 Freddie Lin 2008		2008.003	3635	
	7590 07/25/200 CHNER, A PROFESS	EXAMINER			
CORPORATION 17961 SKY PARK CIRCLE, SUITE 38-E IRVINE, CA 92614			SENFI, BEHROOZ M		
			ART UNIT	PAPER NUMBER	
			2621		
		MAIL DATE	DELIVERY MODE		
			07/25/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Applicatio	n No.	Applicant(s)				
		09/761,114	4	LIN ET AL.				
		Examiner		Art Unit				
		BEHROOZ		2621				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the	cover sheet with the c	orrespondence ad	ddress			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH I.136(a). In no even d will apply and will ute, cause the appli	IS COMMUNICATION nt, however, may a reply be tim expire SIX (6) MONTHS from cation to become ABANDONE	N. nely filed the mailing date of this of the mailing date of this of the control	·			
Status								
1) 又	Responsive to communication(s) filed on 22 /	April 2008						
· · · · · · · · · · · · · · · · · · ·		is action is no	on-final.					
3)	Since this application is in condition for allowa			secution as to the	e merits is			
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
- 4)⊠	4)⊠ Claim(s) <u>1,2,4-10,12-20,22-27,29-31,39-41 and 43</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
′=	6)⊠ Claim(s)is/are allowed. 6)⊠ Claim(s) <u>1,2,4-10,12-20,22-27,29-31,39-41 and 43</u> is/are rejected.							
·	Claim(s) is/are objected to.	.,, <u>.,</u> .,,.,.,	-j					
	Claim(s) are subject to restriction and/	or election re	quirement.					
	on Papers							
		~~"						
-	The specification is objected to by the Examin		Tablested to by the F	Evaminor				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
		•	•	. ,	YED 4 404/d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

Application/Control Number: 09/761,114 Page 2

Art Unit: 2621

DETAILED ACTION

Response to Amendment

1. Applicant's arguments, filed 4/22/2008 have been fully considered and are persuasive. The previous non-final rejection, mailed 2/202008 has been withdrawn.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 2, 4 5, 7 10, 12 14, 16 19, 22 26, 29 and 30 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen et al (US 5,892,535) in view of Ogino et al. (US 6,804,454).

Regarding claim 1, Allen '535 discloses, apparatus for transmitting video data across a network (i.e. figs. 2 and 27, shows transmission of media/video data across a network), a video input that receives an uncompressed video signal (i.e. figs. 7A - 7B and 24, video encoder receiving uncompressed video data), a video predictive coding module coupled to the video input (i.e. figs. 7B and 24, shows video encoder using MPEG standard for performing predictive video coding/decoding, col. 5, lines 7 – 56 and col. 15, lines 21 – 23), wherein the video predictive coding module performs video predictive coding on the video signal in real time to create a video predictive coded signal (i.e., figs. 7 A - 7B and 24, shows video encoder using MPEG standard algorithm, thus performs predictive video coding/decoding in real time, col. 5, lines 7 – 56, to

create a video predictive coded signal), and a network interface coupled to the video predictive coding module and coupled to the network (i.e. fig. 2, network interface 206a-206c and fig. 27, network interface 3100a – 3100c, coupled to video predictive coding and network), wherein the network interface transmits the video predictive coded signal across the network concurrently with the video predictive coding module performing video predictive coding in real time (i.e. fig. 2, network interface 206a-206c and fig. 27, network interface 3100a – 3100c, shows network interface transmits the video predictive coded signal across the network).

Allen teaches MPEG standard for performing predictive video coding/decoding, but is silent to explicitly show, a delay module coupled to the video input to delay a line of the uncompressed video signal, a subtraction module coupled to the delay module, wherein the subtraction module subtracts a subsequent line of the video signal from the delayed line of the video signal.

Ogino (i.e., fig. 11, element 32 and 33) clearly shows a delay module 32 coupled to the video input 31 to delay a line of the uncompressed video signal, a subtraction module 33 coupled to the delay module 32, wherein the subtraction module subtracts a subsequent line of the video signal from the delayed line of the video signal.

In view of the above, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teaching of Allen and Ogino to efficiently detect additional information and reduce spread gain, as suggested by Ogino (i.e., col. 6, lines 124-25).

Regarding claim 2, the combination of Allen and Ogino teaches, the apparatus for transmitting uncompressed video data according to claim 1, wherein the network comprises at least one of a fast Ethernet network (i.e. Allen, col. 29, lines 43 – 53).

Regarding claim 4, the combination of Allen and Ogino teaches, the apparatus for transmitting uncompressed video data according to claim 1, wherein the delay module comprises a line buffer and wherein the line buffer delays a line of the video signal to create the delayed line of the video signal (i.e., fig. 11, delay circuit 32 of Ogino).

Regarding claim 5, the combination of Allen and Ogino teaches, further comprising a timing control module coupled to the video input and coupled to the video predictive coding module, wherein the timing control module controls the timing of the video predictive coding module (i.e., fig. 24, col. 5, lines 40 – 43 and col. 7, lines 45 – 57 of Allen).

Regarding claim 7, the combination of Allen and Ogino teaches, further comprising an analog to digital converter (Allen, col. 4, lines 10, and Ogino, fig. 11, element 391).

Regarding claim 8, the combination of Allen and Ogino teaches, wherein the video predictive coded signal comprises at least one line comprising plurality of pixels (Allen, col. 26, lines 18 - 22).

Regarding claims 9, 18 and 25, the limitations claimed are substantially similar to claim 1, therefore the ground for rejecting claim 1 also applies here. As for the claimed, decoding module, please see (Allen, figs. 7A- 7B, 24 and 33C – 33D).

Art Unit: 2621

Regarding claim 10, the limitations claimed are substantially similar to claim 2, therefore the ground for rejecting claim 2 also applies here.

Regarding claim 12, the limitations claimed are substantially similar to claims 1 and 4, therefore the ground for rejecting claims 1 and 4 also applies here.

Regarding claim 13, the limitations claimed are substantially similar to claim 5, therefore the ground for rejecting claim 5 also applies here.

Regarding claim 14, the combination of Allen and Ogino teaches, a clock generation module coupled to the video predictive decoding module (Allen, col. 7, lines 43-64) and a memory control module coupled to the video predictive decoding module (Allen, col. 22, lines 27-40).

Regarding claim 16, the combination of Allen and Ogino teaches, digital to analog (Allen, col. 21, lines 64).

Regarding claims 17 and 19, the limitations claimed are substantially similar to claims 8 and 2, therefore the ground for rejecting claims 8 and 2 also applies here.

Regarding claims 22 - 24, the combination of Allen and Ogino teaches, synchronization signal (Allen, col. 16, lines 45 – 60).

Regarding claim 26, the limitations claimed are substantially similar to claim 2 above, therefore the ground for rejecting claim 2 also applies here.

Regarding claims 29 - 30, the limitations claimed are substantially similar to claims 22 - 23, therefore the ground for rejecting claims 22 - 23 also applies here.

Regarding claim 31, the combination of Allen and Ogino teaches, receiving step receives a video predictive coded multimedia signal (Allen, figs. 24 and 27).

4. Claims 6, 15, 20 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen et al (US 5,892,535) in view of Ogino et al. (US 6,804,454) and Smith et al. (US 6,088,732).

Regarding claim 6, the combination of Allen, Ogino teaches, channel allocation module and Ethernet network for transmitting the video predictive coded signal (Allen, fig. 2, combination of elements 206a – 206c and 212a – 212c and col. 29, lines 43 – 53).

Allen is silent in regards to explicit mention, reserves a channel of the network and transmitting video signal according to the priority of the video signal.

Smith (i.e., figs. 6a and 15, col. 7 - 8, lines 58 - 67 and col. 16, lines 7 - 20) teaches providing a service over a network by determining/monitoring the resource availability according to the priority of the media type.

In view of the above, taking the combined teaching of Allen and Smith as a whole, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to the distribution media system of Allen in accordance with the teaching of Smith by monitoring the terminal resources availability and controlling the distribution processing for transmission of media with higher priority, as suggested by Smith (col. 15, lines 7 - 20).

Regarding claims 15, 20 and 26, the limitations claimed are substantially similar to claim 6 above, thus have been analyzed and rejected in the above claim.

Application/Control Number: 09/761,114 Page 7

Art Unit: 2621

5. Claims 39 – 41 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen et al (US 5,892,535) in view of Ogino et al. (US 6,804,454) and Zhang et al (US 6,181,711).

Regarding claim 39, the combination of Allen and Ogino teaches, switching multimedia data over network and transmission of video and audio data across a network (i.e. figs. 2, 5 and 24, col. 16, lines 45 – 60), performing video predictive coding on the uncompressed multimedia signal to create a video predictive coded multimedia signal (i.e. figs. 7A - 7B and 24, shows video encoder using MPEG standard for performing predictive video coding/decoding, col. 5, lines 7 – 56 and col. 15, lines 21 – 23), and transmitting the video predictive coded multimedia signal over the network in real time (i.e. fig. 2, network interface 206a-206c and fig. 27, network interface 3100a – 3100c, shows network interface transmits the video predictive coded signal across the network).

Allen '535 teaches distribution network interface for different channels, which would consider the bandwidth of the channel network, but fails to explicitly teach, "channel allocation priority".

Zhang (i.e. col. 15, lines 12 - 31) teaches determining the priority for channel usage, e.g., channel allocation priority.

Taking the combined teaching of Allen and Zhang as a whole, it would have been obvious to one skilled in the art at the time of the invention was made to improve the distributing media system of Allen as taught by Zhang to convert a bit stream of a given bit rate to a different bit rate for reliable transport over communication channels with

Art Unit: 2621

smaller delay (col. 4, lines 12 - 22 of Zhang), the delaying and subtracting part of the claim have been addressed previously with respect to claim 1 above.

Regarding claim 40, the combination of Allen, Ogino and Zhang teaches, wherein the uncompressed multimedia signal comprises at least one of a composite and a digital video signal (Allen, fig. 24).

Regarding claim 41, the combination of Allen, Ogino and Zhang teaches, data packets including a header and a payload (Allen, fig. 22 – 24, packetizing with header and payload).

Regarding claim 43, the limitations claimed are substantially similar to claim 25 above, thus have been analyzed and rejected with respect to the above claim.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Behrooz Senfi whose telephone number is 571-272-7339. The examiner can normally be reached on M-F 7:00-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/761,114 Page 9

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Behrooz Senfi/ Examiner Art Unit 2621